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## <u>APPENDIX</u>

## IN THE CLAIMS

Please amend claim 15 and add new claims 30-33 as follows:

- 15. (Four Times Amended) A cooling apparatus comprising: a heatsink comprising:
- a) a column having a heat receiving face, wherein a cross section of said column has a shape whose sectional width decreases as it extends away from said heat receiving face; and
- b) a plurality of pillar-type pretrusions provided on at least one face other than the heat receiving face of said column in such a manner that they are parallel to or at a predetermined angle against the heat receiving face, wherein at least one continuous row of said pillar-type protrusions extend from said column at the same angle relative to said column, each of said pillar-type protrusions in said at least one continuous row extending from said column at the same vertical height; and

a cooling means mounted on said heat: ink to provide a fluid flow between said plurality of pillar-type protrusions in a direction transverse to said heat receiving face.

- 30. (New) A heatsink comprising:
- a) a column having a heat receiving face, wherein a cross section of said column decreases at it extends away from said heat receiving face; and

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- b) a first plurality of pillar-type protrusions formed by a plurality of first cut slits formed on a face other than the heat receiving face of said column, and a plurality of cross slits formed transversely to said first cut slits, said first plurality of pillar-type protrusions defining a first fluid flow section;
- c) a second plurality of pillar-type prorusions formed by a plurality of second cut slits formed on another face of said column, and a plurality of second cross slits formed transversely to said second cut slits, said second plurality of pillar-type protrusions defining a second fluid flow section,

wherein said first fluid flow section is connected to said second fluid flow section.

- 31. (New) The heatsink of claim 30, wherein the heat receiving face is space away from the nearest pillar-type protrusion.
  - 32. (New) A heatsink comprising:
- a) a column having a heat receiving face, wherein a cross section of said column has a shape whose sectional width decreases as it extends away from said heat receiving face; and
- b) a plurality of pillar-type protrusions provided on at least one face other than the heat receiving face of said column in such a manner that they are parallel to or at a predetermined angle against the heat receiving face, said plurality of pillar-type protrusions being configured to form at least one uninterrupted fluid flow path between respective pillar-type protrusions in a direction in which the cross-sectional width of said column changes,